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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/436,440 11/09/99 SANDERSON

A PM244890

EXAMINER

IM22/0130

SERGEANT, R

ART UNIT

PAPER NUMBER

1711

9

DATE MAILED:

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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/436,440

Applicant(s)

Sanderson et al.

Examiner

Rabon Sergeant

Group Art Unit

1711

☒ Responsive to communication(s) filed on Nov 2, 2000

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-30 is/are pending in the application.

Of the above, claim(s) 12-30 is/are withdrawn from consideration.

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-11 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☒ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 3 #6

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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1. Applicant's election of Group I, claims 1-11 in Paper No. 8, filed November 2, 2000 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CAR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CAR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CAR 3.73(b).

3. Claims 1-11 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-13 of copending Application No. 09/436,360. Although the conflicting claims are not identical, they are not patentably distinct from each other because each set of claims is drawn to polyisocyanate based elastomers, derived from equivalent reactants.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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4. Claims 1-11 are directed to an invention not patentably distinct from claims 1-13 of commonly assigned 09/436,360. Specifically, each set of claims is drawn to elastomers derived from equivalent reactants.

5. Commonly assigned 09/436,360, discussed above, would form the basis for a rejection of the noted claims under 35 U.S.C. 103(a) if the commonly assigned case qualifies as prior art under 35 U.S.C. 102(f) or (g) and the conflicting inventions were not commonly owned at the time the invention in this application was made. In order for the examiner to resolve this issue, the assignee is required under 37 CAR 1.78(c) and 35 U.S.C. 132 to either show that the conflicting inventions were commonly owned at the time the invention in this application was made or to name the prior inventor of the conflicting subject matter. Failure to comply with this requirement will result in a holding of abandonment of the application.

A showing that the inventions were commonly owned at the time the invention in this application was made will preclude a rejection under 35 U.S.C. 103(a) based upon the commonly assigned case as a reference under 35 U.S.C. 102(f) or (g).

6. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The language “below about 75⁰C”, “above about -20⁰C”, and “below about 60⁰C”, renders the claims indefinite, because “about” encompasses values slightly above or below the recited

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values; therefore, it is unclear if the language is met by values of 75° or higher, -20° or lower, and 60° or higher, respectively.

7. Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicants have failed to define what is meant by “substantially solid”.

8. Claims 2 and 3 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for elastomers produced from 2,4-toluene diisocyanate, does not reasonably provide enablement for elastomers produced from generic toluene diisocyanate, which includes 2,6-toluene diisocyanate. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

Applicants have failed to demonstrate that 2,6-toluene diisocyanate possesses the necessary hindrance to function within the invention, as claimed.

9. Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

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In view of the language of claims 5 and 6, the oligomer constitutes a reaction product between a diol and diisocyanate; therefore, it is unclear if the language of claim 1 allows for the use of diisocyanate in addition to that used to produce the oligomer or if the language of claim 1 allows for the use of a non-isocyanate reacted diol as the oligomer. The specification appears to be largely silent with respect to the claimed details of the oligomer.

10. Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Applicants have failed to provide enablement for the oligomer. Furthermore, at page 13 of the specification, applicants have stated that hexane diisocyanate and diphenylmethane diisocyanate do not work well; however, these species have been claimed as suitable diisocyanates.

11. Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear if the A block containing segment and B block containing segment are mutually exclusive, since both segments may be crystalline below -20°C and amorphous above 75°C. Under the aforementioned conditions, the requirements of both segments would be met by a single constituent.

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12. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

13. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wardle ('613) in view of Oertel (Polyurethane Handbook: Chemistry -Raw Materials - Processing - Applications - Properties)

Wardle discloses the production of thermoplastic polyurethanes comprising A and B blocks, which correspond to those of applicants, wherein the blocks are linked by reaction of diisocyanates, such as 2,4-toluene diisocyanate, and linking compounds having isocyanate reactive groups. See abstract and columns 4-9.

14. Patentee is silent regarding the use of an oligomer as the linking compound; however, patentee does disclose that there is no limitation on the size of the linking compound. Oertel

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discloses at page 86 that hydroxyl terminated urethanes are useful components for producing polyurethane synthetic rubbers, when used in combination with hindered polyisocyanates.

15. Therefore, the position is taken that one of ordinary skill in the art, in view of the Oertel teaching, would have found it obvious to utilize hydroxyl terminated urethanes as the linking compound in combination with the hindered polyisocyanate and method of Wardle, so as to arrive at the instant invention.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (703) 308-2982.

Sergent/dh

January 22, 2001


RABON SERGENT
PRIMARY EXAMINER